

## DAM614

### DIGITAL MATRIXES

#### *Installation Digital Mixer*



### PRODUCT OVERVIEW

DAM614 is a fully programmable audio digital mixer. It includes 6 audio inputs and 4 audio outputs, front panel inputs and outputs level controls, DSP processing, RS-232 connectivity and 4 REMOTE control ports (0-10VDC). Its 4 outputs can be used as mono independent zones or coupled as stereo zones. Regarding inputs, the first 2 are stereo LINE inputs, and the 3rd, 4th, 5th and 6th ones are MIC/LINE ready (Phantom voltage available), being possible to use them independently (mono) or as stereo-coupled inputs.

### KEY FEATURES

- DSP @ 24 bits / 48kHz
- Front panel LCD display
- 6 front panel input control digital knobs (one per input)
- 4 front panel output control digital knobs (one per output)
- 4 front panel keys, for parameters adjustment and menus navigation
- Processing:
  - Independent level control for each input and output
  - Independent mixer for each output zone
  - Crossover filters available for each output
  - Independent 10 band graphic EQ for each output
  - Independent and adjustable High-pass filter available for MIC/LINE inputs
  - 2 level priority PAGER / DUCKER function, triggered by MIC/LINE inputs
  - Independent Noise Gate function for MIC/LINE inputs
  - Independent Feedback Suppressor Function for MIC/LINE inputs
  - Adjustable delay time for 2 outputs

### APPLICATIONS

- A/V corporate, retail and education applications
- BGM & Paging solutions, with message priorities and source/volume independent selection
- Conferencing
- P.A. management (multi-way speaker processing, delay adjustment, etc.)

### ACCESSORIES AND COMPATIBLE PRODUCTS

- MPAGE1
- MPAGE4
- WPa Series



WPaVOL-SR



MPAGE4

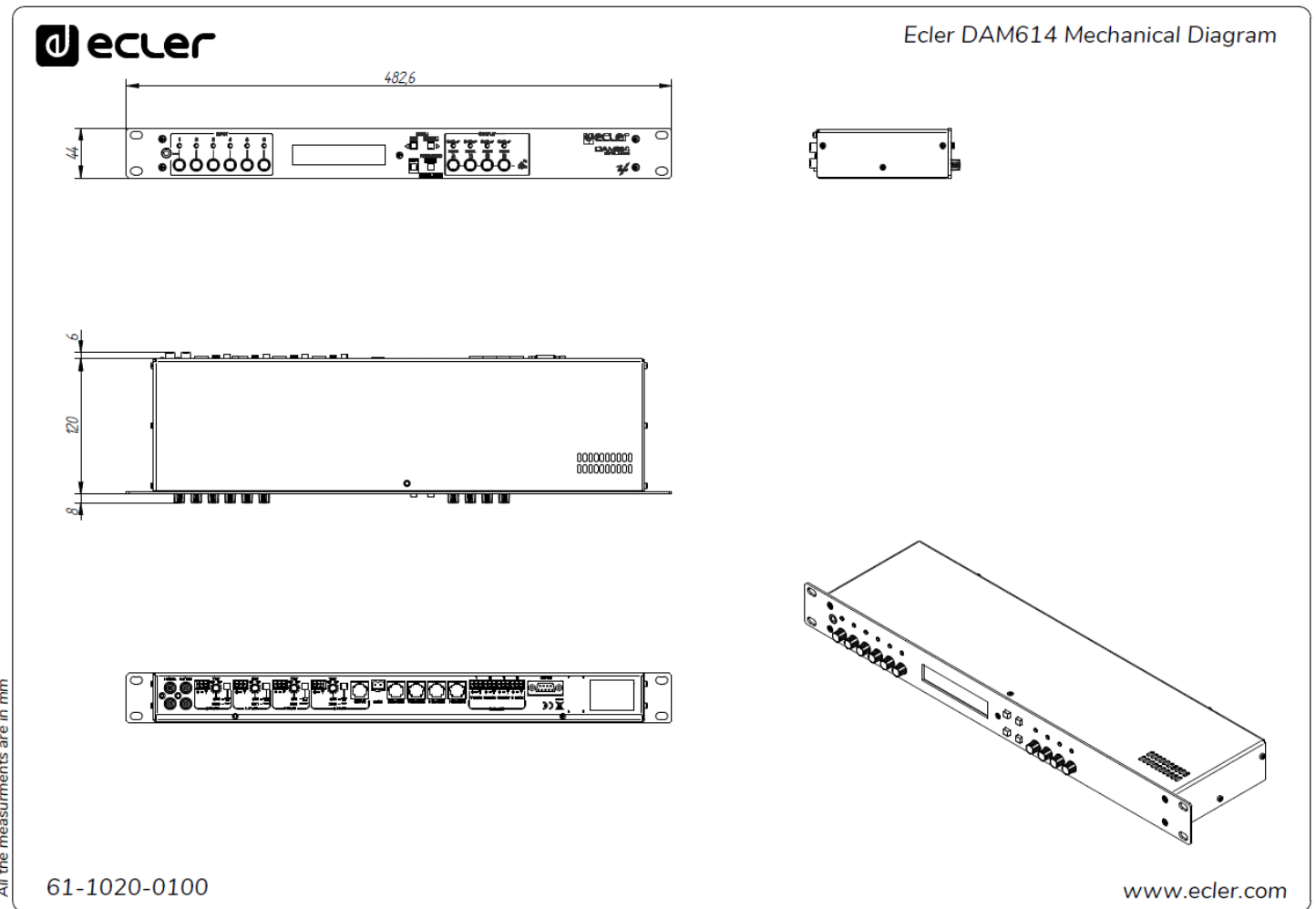
## TECHNICAL SPECIFICATIONS

## DAM614

INPUT 1, 2 (LINE)	
Sensitivity	0 / -6dBV Internal jumper adjust. 0dBV factory default
Input impedance	>13k
Input connector	RCA female
INPUT 3, 4, 5, 6 (MIC)	
Sensitivity	-20 / -50dBV External potentiometer adjust
Input impedance	>24k electronically balanced
CMRR	>55dB (20Hz ÷ 20kHz)
Input connector	Terminal block (Symmetrical)
Phantom Voltage	+17,5 VDC (Internal jumper)
INPUT 3, 4, 5, 6 (LINE)	
Sensitivity	0 / -6dBV Internal jumper adjust. 0dBV factory default
Input impedance	>24k electronically balanced
CMRR	>55dB (20Hz ÷ 20kHz)
Input connector	Terminal block (Symmetrical)
ZONE OUTPUTS	
Nominal output level	0dBV
Output impedance	300Ω electronically balanced
Output connector	Terminal block (Symmetrical)
A/D & D/A	24bit / 48kHz
FREQUENCY RESPONSE	<10Hz ~ 20kHz (+0dB/ -0.5dB)
OUTPUT NOISE FLOOR (FFT)	>110dB (from 20Hz to 20kHz)
THD + NOISE	< 0.0058% (1kHz, 1Vrms)
CROSSTALK	>90dB, 20Hz ÷ 20kHz
INPUT EQ	
Type	Baxandall 3 ways EQ
Gain	-10dB ~ +10dB in 0.1dB steps
Frequency	Low 200Hz Mid 1kHz High 6.3kHz
INPUT 3, 4, 5, 6 TALKOVER EQ	
Type	Assignable to any output zone. 2 priority levels
Modes	Ducker / Pager (only input 6)
Threshold	-80 / +12dBV
Depth	0 ~ 80dB
Attack time	5 ~ 2000ms
Hold time	10 ~ 3000ms
Release time	50 ~ 3000ms
Chime (only input 6)	ON / OFF. Variable volume. Two different melodies
INPUT 3, 4, 5, 6 NOISE GATE	
Threshold	-80 / +12dBV
Depth	0 ~ 80dB
Attack time	0.1 ~ 500ms
Hold time	10 ~ 3000ms
Release time	10 ~ 1000ms

INPUT 3, 4 OTHER OPTIONS	
Feedback supressor High pass filter (hum & pop suppressor)	Frequency shifter type. 50 ~ 150 Hz 12dB/oct Butterworth
ZONE OUTPUT EQ	
Type	10 band EQ
Filters	Adaptable Q to achieve maximum flat response
Gain	-10dB ~ +10dB step 0.1dB
Frequencies	31, 63, 125, 250, 500, 1k, 2k, 4k, 8k, 16k Hz
ZONE OUTPUT CROSSOVER FILTERS	
Type	Low & High Pass Butterworth 12 dB/oct
Frequency	20Hz ÷ 20kHz
ZONE OUTPUT COMPRESSOR	
Threshold	-36 / +12dBV
Ratio	1:1 ~ 1:inf (LIMITER)
Knee	Hard / Soft
Attack time	0.1 ~ 500ms
Release time	10 ~ 1000ms
Make-up gain	0dB ~ +10dB
ZONE OUTPUT DELAY	
Delay Time	10 ~ 1000ms (10 ~ 343,4m)
Units	Milliseconds, seconds, centimeters, meters
EXTERNAL MUTE	
Configuration	Normally open. Assignable to any output zone
REMOTE CONTROLS	
Remote type	WPaVOL-SR. Up to 4 remotes
Configuration	Input volume Zone volume Input selector Preset selector
GENERAL	
DC supply	±17,5 VDC
Mains	100-240VAC + External PSU 17,5VDC
Power consumption	12W
Dimensions WxHxD	482,6x44x120mm 19x1.7x4.7 in.
Weight	2,00 kg 4.4 lb

MECHANICAL DIAGRAM



All product characteristics are subject to variation due to production tolerances. **NEEC AUDIO BARCELONA S.L.** reserves the right to make changes or improvements in the design or manufacturing that may affect these product specifications.

For technical queries contact your supplier, distributor or complete the contact form on our website, in [Support / Technical requests](#).

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